

Title (en)

A device for reflecting beams of atoms or molecules

Title (de)

Vorrichtung zur Strahlreflexion von Atomen oder Molekülen

Title (fr)

Dispositif pour réfléchir des faisceaux d'atomes ou de molécules

Publication

**EP 2061039 A1 20090520 (EN)**

Application

**EP 07022022 A 20071113**

Priority

EP 07022022 A 20071113

Abstract (en)

The present invention relates to a device for coherently reflecting a beam of atoms or molecules, said device comprising a crystalline substrate with a high-quality surface on which a metal surface structure is deposited such that the specular reflectivity of the beam is about 20 % or higher and a method for producing the same. It further relates to an atom-optical apparatus containing said device and its use in high vacuum or ultra-high vacuum systems, and a method for reflecting a beam of atoms or molecules by using said device.

IPC 8 full level

**G21K 1/06** (2006.01)

CPC (source: EP)

**G21K 1/06** (2013.01)

Citation (search report)

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